

6GC5

Power Pentode

NEONOVAL TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 1.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 200 max. volts

Heater positive with respect to cathode 200^a max. volts

Direct Interelectrode Capacitances (Approx.):^b

Grid No.1 to plate 0.9 μf

Grid No.1 to cathode & grid No.3, grid No.2, and heater 18.0 μf

Plate to cathode & grid No.3, grid No.2 and heater 7.0 μf

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 3.230"

Maximum Seated Length 2.920"

Length, Base Seat to Bulb Top (Excluding tip) . . 2.370" to 2.610"

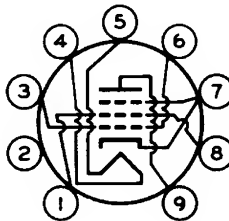
Diameter 1.062" to 1.188"

Bulb T9

Base Large-Button Neonoval 9-Pin (JEDEC No.E9-68)

Basing Designation for BOTTOM VIEW 9EU

Pin 1—Grid No.2
Pin 2—No Internal Connection
Pin 3—Grid No.1
Pin 4—Heater
Pin 5—Heater



Pin 6—Grid No.1
Pin 7—Cathode,
Grid No.3
Pin 8—Grid No.2
Pin 9—Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, *Design-Maximum Values*:

PLATE VOLTAGE 220 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE 140 max. volts

GRID-No.2 INPUT 1.4 max. watts

PLATE DISSIPATION 12 max. watts



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Typical Operation and Characteristics:

	<i>Fixed Bias</i>	<i>Cathode Bias</i>	
Plate Supply Voltage.	110	200	volts
Grid-No.2 Supply Voltage.	110	125	volts
Grid-No.1 (Control-Grid) Voltage. .	-7.5	-	volts
Cathode Resistor.	-	180	ohms
Peak AF Grid-No.1 Voltage	7.5	8.5	volts
Zero-Signal Plate Current	49	46	ma
Max.-Signal Plate Current	50	47	ma
Zero-Signal Grid-No.2 Current . . .	4	2.2	ma
Max.-Signal Grid-No.2 Current . . .	10	8.5	ma
Plate Resistance (Approx.).	13000	28000	ohms
Transconductance.	8000	8000	μ hos
Load Resistance	2000	4000	ohms
Total Harmonic Distortion	10	10	%
Max.-Signal Power Output.	2.1	3.8	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

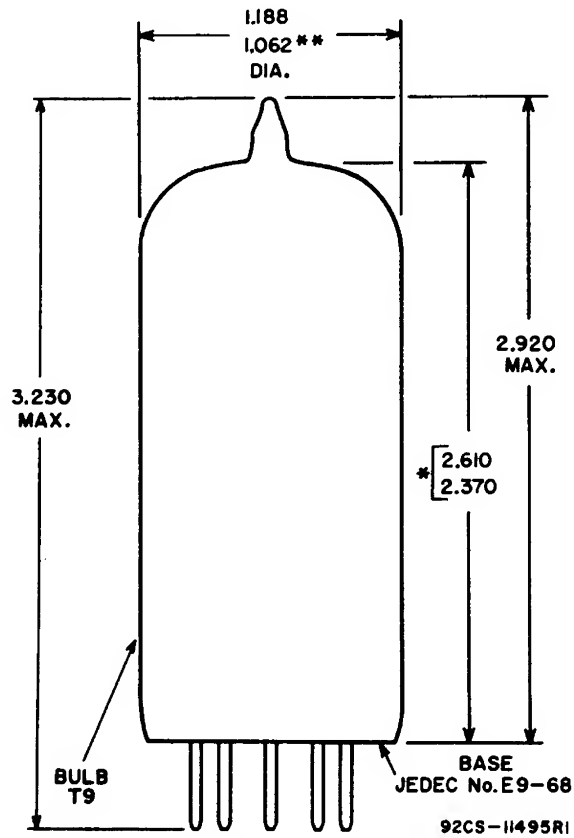
For fixed-bias operation.	0.1 max.	megohm
For cathode-bias operation.	0.5 max.	megohm

^a The dc component must not exceed 100 volts.

^b Without external shield.



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ALL DIMENSIONS IN INCHES

** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

* MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.

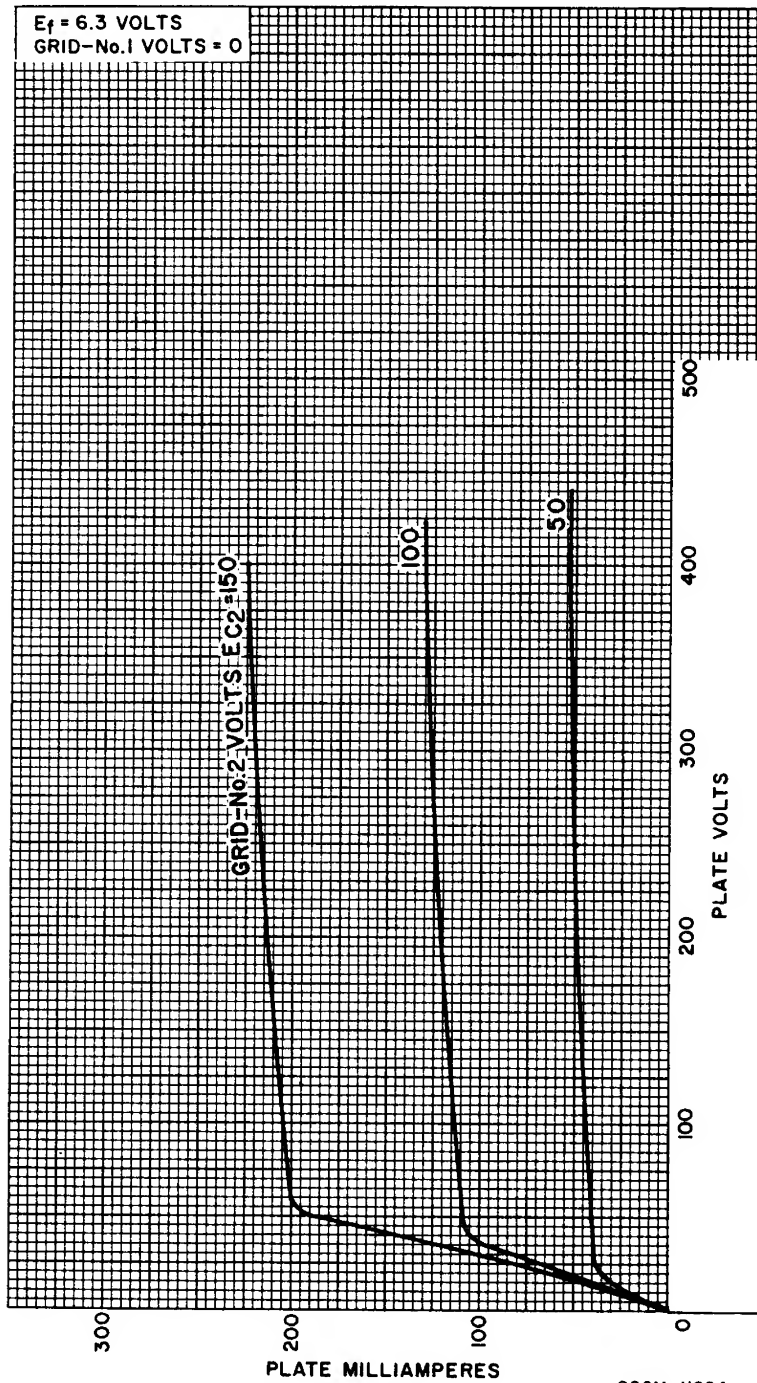


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AVERAGE PLATE CHARACTERISTICS



92CM-11824

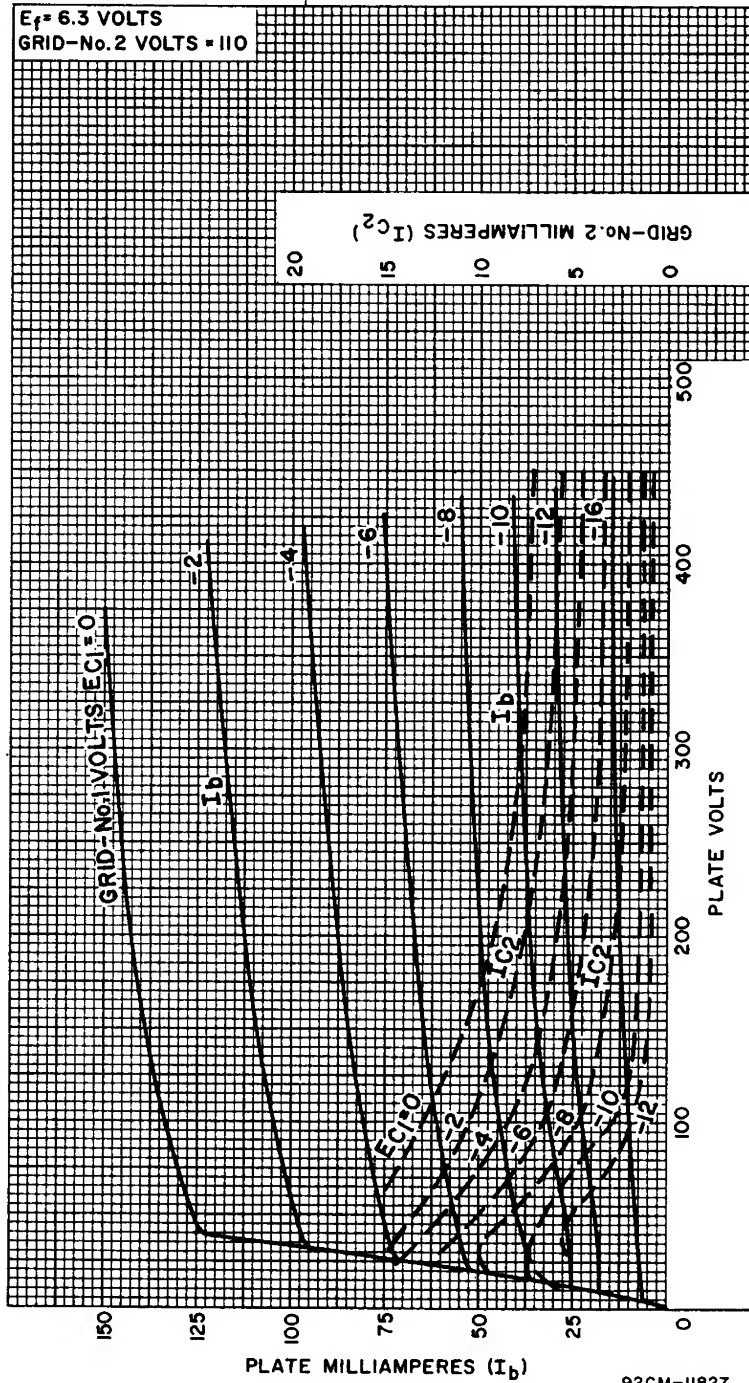
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AVERAGE CHARACTERISTICS

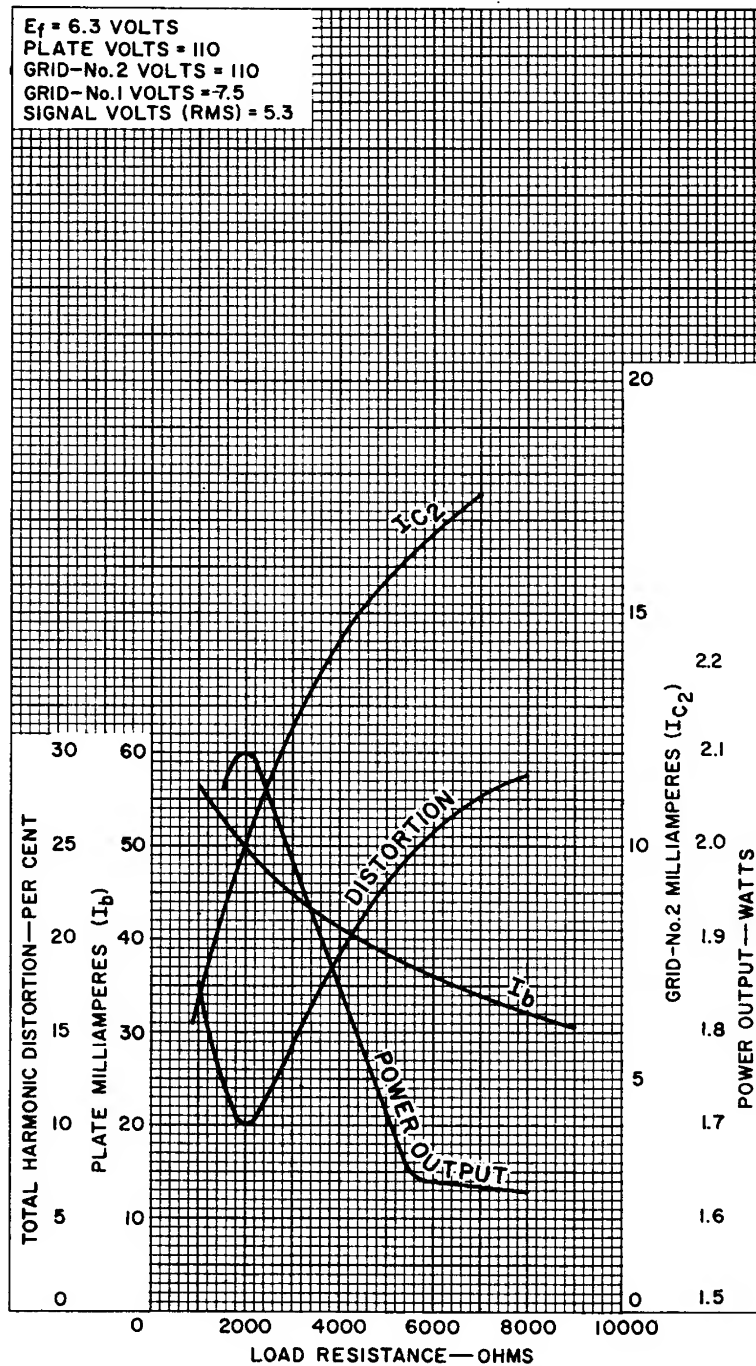


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OPERATION CHARACTERISTICS



92CM-11828

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